# Utah Wireless Integrated Network

## Technology Steering Committee

**MEETING MINUTES**
**Friday, April 23, 2004**
**Price UDOT**
**10:00 am**

## Attendance:

| Price Videoconference Location: | Phil Bates (State DPS) |
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| Jake Hunt (UCAN) | Randy Auman (Logan PD) |
| Tim Slocum (State Corrections) | Ryan Larkin (Washington County) |
| Boyd Webb (State ITS) | Bart Bailey (Washington County) |
| Randy Auman (Logan City) | Bart Bailey, Washington Co. S.O. |
| Allan Orton (State ITS) | Doug Chandler (State ITS) |
| Tim Cornia (State DPS) | Steve Proctor (UCAN) |

| Salt Lake Videoconference Location: | |
|---|---|
| Nancy McConnell (State ITS) | Jeff Dial (St. George City) |
| Lee Kelley (Ut. Nat'l Guard) | Floyd Ritter (State ITS) |
| Steve Carver (UNG-MARS) | Brent Thomas (State DPS) |
| Joe Parker (Ut. Nat'l Guard) | Rick Daughetee (Park City) |
| Lloyd Johnson (State DNR) | Paul Pitts (Layton City) |
| Ed Frazier (Layton City) | |

| Logan Videoconference Location: |
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| Jeff Stork (State ITS) |
| Jim Woolley (Extreme Networks) |

| Cedar City Videoconference Location: |
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| Trevor Pollock (State ITS) |
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| Richfield Videoconference Location: |
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| Al Higgs (State ITS) |

Jake Hunt (UCAN) chaired the meeting.

## I. Approval of Previous Minutes

The minutes for the March meeting were approved without change.

## II. OmniLink Voice Interoperability Project

Phil Bates provided an update of the OmniLink voice interoperability project. Salt Lake City has purchased their own 800MHz trunking system. Last week, UCAN and Salt Lake City agreed to configure their new systems back at factory staging as one integrated system.
The systems should be delivered the second week of May. System testing is scheduled to start the second week of June. Circuits look like they're all on track. An operations functional test is scheduled for 15 June.

## III. Mobile Data Project Team Update

15-17 communications sites are being looked at for deployment of a 700 MHz mobile data solution. The proposed sites would cover most of the Tri-County area (Daggette, Duchesne, and Uintah) and a significant portion of the Southwestern area of the state from Millard County to Washington County. DPS is currently trying to find funding from approximately three sources. Hope to start installations beginning in August – September. Two sources of funding being looked at: one is a pilot project through ODP. Phil has met with the director of ODP in

Washington and is flying back again in May.  If that doesn't work, then the state will be looking toward Homeland Defense funding.

## IV.     Narrowband Migration Project

Boyd Webb is the Project Team Leader for Narrowband Migration. He reported that the FCC has not yet ruled on the reconsideration with respect to narrowband stay, so the stay is still in effect for now. The project team has been bouncing around a couple of different scenarios for narrowbanding.  There is a proposal to refarm the VHF spectrum (change where the channels are). The narrowband requirements by the FCC will free up more channels, but does not address the efficient use (pairing) of VHF channels.  Floyd Ritter with State ITS sits on a national committee sponsored by the National Public Safety Telecommunications Council (NPSTC). This committee is looking at the practical implementation of paired Transmit and Receive pairs within the newly farmed VHF spectrum. The UWIN Narrowband Migration Team needs to decide how and if Utah will follow the NPSTC standards (if NPSTC produces a standard).

Floyd Ritter reported on the National Committee.  Floyd was asked by the committee chair to get discussion moving among the group.  Many regions have asked for "greenspace', which means some new spectrum that can be used as an interim to enable a move to channelized spectrum.  Pilot projects have been discussed. An FCC representative is checking with his management on what can and can't be done.  The UHF spectrum is already channelized.  The spectrum being looked at is 138-160 MHz.

## V.     802.11 Project Team Update

Tim Cornia, the Project Team lead, provided an update on the 802.11 team's progress.  The last meeting was productive.  Tim requested permission of the Co-chairs to rename the Project Team: "Wireless Ethernet" to be inclusive of 802.11/a/b/g/etc, 802.16 and possibly 4.9 GHz. In the last team meeting, those in attendance agreed that the solution for a large wireless infrastructure must address interoperability with multiple standards to allow for multiple solutions. It was noted that a single standard would almost certainly be too narrow for the uses that are needed.
The group discussed licensed vs. unlicensed spectrum, as well as the need for agencies (such as State ITS) to deliver a 'toolbox' solution that would allow agencies to pick the application that was right for them. Tiered levels (1-5) of security and service were discussed. Probably the largest question of all is the delivery of security and authentication. The state is moving forward with a Utah Master Directory (UMD) solution for single point authentication.  It may be more useful to use multiple authentication methods/databases, in conjunction with UMD.  Another work item was looking at software solutions that could remember the user licenses used in each area.

Jim (Washington County), gave an update on what they were doing with their (2) Open Source 802.11 sites, with a 3$^{rd}$ site coming up soon.  They are running a 15dBi omni directional antenna and are getting approximately a 3.25 coverage radius off of a 100' tower.  With another location by the "D" near the airport, all of St. George proper should be easily covered.  An 802.11 point-to-point 17-mile stretch and a 21-mile stretch will provide connectivity out to the Toquerville Lookout.

Tim feels the project group is about six weeks (or two meetings) from having a standards document/report to the UWIN Governance Board.  Doug Chandler wanted to make sure each of the Project Teams is moving toward obtainable goals that can be reported to the Governance Board.

Jake Hunt asked Tim to give a brief overview of the 4.9 GHz planning process.  Tim was elected to Chair the 4.9 GHz committee for the 700MHz Regional Planning Group.  Tim met with Boyd and discussed a document that Boyd had drafted.  The committee will discuss and edit the document, then forward it to the FCC.  One aspect outlined in the document is the need for central coordination in the use of frequencies.  This coordination will help ensure agencies don't step on each other's coverage.  Jake Hunt pointed out that the document must be submitted to the FCC by July 1.

## VI.    **Expectations**

Doug Chandler asked for input on the expectations of UWIN Technology Steering Committee members.  What can be done to make the process more interesting and useful?  Minimally, project teams should be putting together documents for the review of the Governance Board.  Should we increase activities within the project teams electronically via the UWIN YahooGroups?

Boyd Webb expressed his opinion that videoconference meetings are difficult because it is challenging to cover in an depth, what each of the teams are doing on a regular basis.  He noted that the groups do need to become more active and it's difficult to pull everyone together for physical meetings at a single location.  Participation is essential to the success of the UWIN Technology Steering Committee. It's not enough to just log in  once and call that the extent of one's participation.

Steve Proctor noted that we are all busy people and this is another issue that we all have on our plate.  Steve noted that it is important that no one perceives that this is the state dictating anything.  It is important that local government agencies –including those in the far reaches of the state have an opportunity to participate.  There are hundreds of technology issues out there that will affect us all.  Utah has the opportunity to address these national issues to ensure they fit our needs.

Jeff Dial with St. George City said that he is probably like many others who come to meetings such as these to learn, and this is why the meeting participation levels may seem somewhat low.  Bi-monthly meetings would be OK with Jeff –as long as the project teams keep moving.

Nancy McConnell with state ITS thought the video conference was a successful option which allows many agencies to participate when they otherwise would not have if they had to travel a great distance.

## VII.    **Next Meeting**

Phil Bates suggested the next meeting be held in Millard County so the new OmniLink solution could be demonstrated.  **The next meeting will be Friday, June 4 at 10:00am at the Millard County Sheriff's Project**. We will investigate to see if videoconferencing may be available.

<p align="center"><a href="http://uwin.utah.gov">http://uwin.utah.gov</a></p>